



Parcel B TPH Combined Site

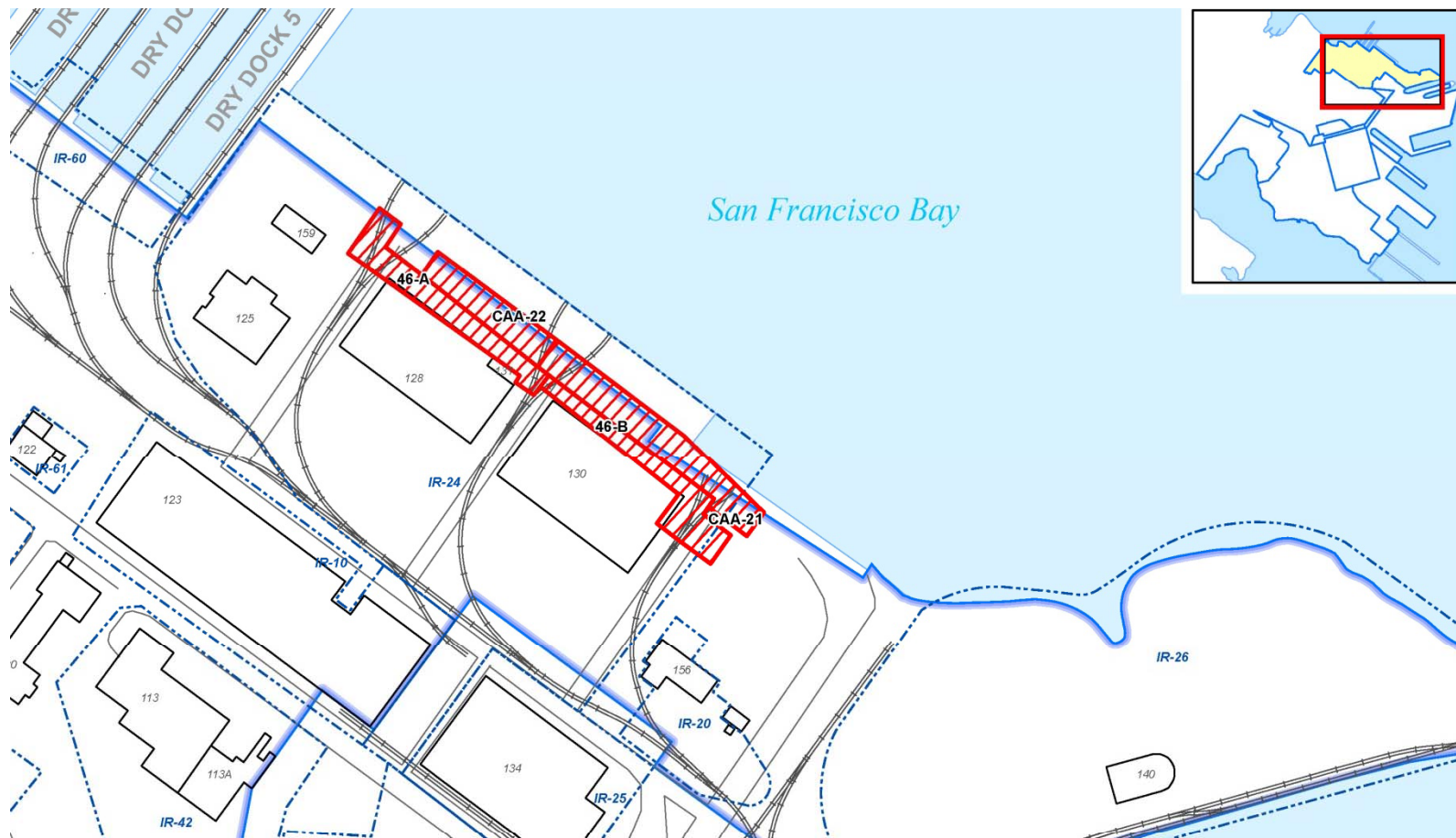


Planned Deep Soil Data Gaps Investigation Combined Site (CAA-21/22 AOC 46-A/B) Parcel B

Base Closure Team Meeting
Hunters Point Naval Shipyard
August 23, 2012



Combined Site Location Map





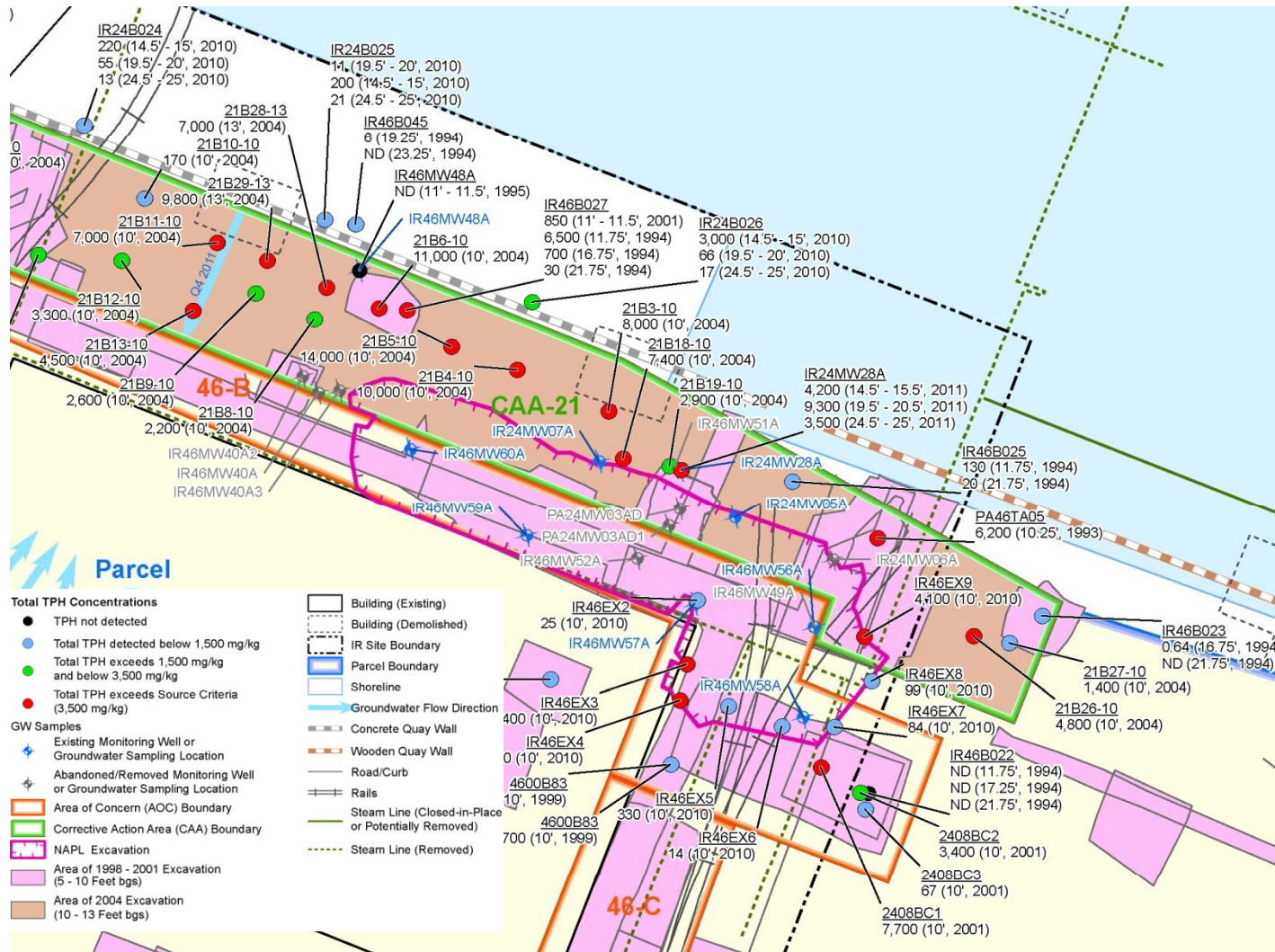
Regulatory Concerns and Identification of Deep Soil Data Gap



- During review of the Draft Post Construction Summary Report (PCSR) dated October 2011 for the NAPL Removal Action, previously unidentified issues were raised pertaining to shoreline stability and deep soil data gaps.
- The Water Board expressed concern regarding the *"likely presence of NAPL-contaminated sediment adjacent to the Bay and potential for contaminated sediment discharge due to shoreline structure failure or future shoreline construction/maintenance work."*
- The SF Dept. of Health also expressed concern *"[I]f this wooden section of the quay wall fails, what type of response does the Navy envision?... While the Navy removed a significant amount of soil containing hydrocarbons, some residuals remain in place due to their proximity to the Bay margin and the inherent slope instability and rapid groundwater infiltration rates in this area."*



Total TPH in Deep Soil in vicinity of LNAPL Excavation





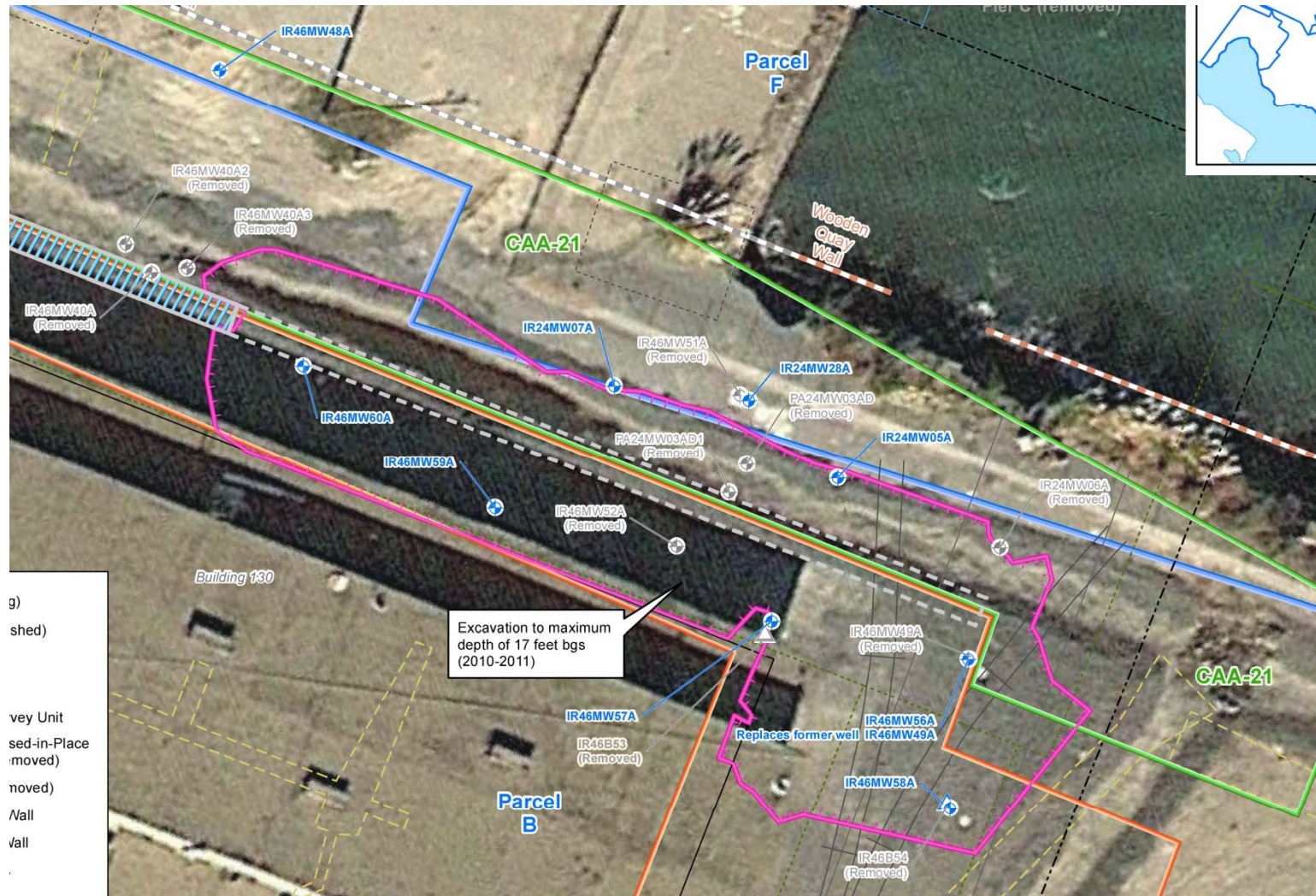
Current Site Conditions



- The Quay Wall adjacent to the Combined Site consist of two sections, a Concrete Quay Wall along the northwest portion of the shoreline, and a Wooden Quay Wall along the southeast portion of the Combined Site shoreline.
- During the time of the LNAPL removal action and well installation, safety considerations due to the deteriorated condition of the deck above the Wooden Quay Wall prevented access to the area between the Wooden Quay Wall and about 20 feet inland.
- Subsequent to the field activities, Piers B and C were removed in 2011
- The Pier C removal included removal of the deck above the Wooden Quay Wall. Thus the previously off-limits 20-foot wide area adjacent to the Wooden Quay Wall is now accessible.



2010 NAPL REMOVAL EXCAVATION





Concrete Quay Deck and Wall



Easternmost end of concrete quay wall is exposed in wave-cut embayment. Note there is no evidence of the wooden wall previously mapped as abutting this section on the HPNS base map. (Photograph taken May 2011.)



Wooden Wall Remnants



Exposed shoreline located southeast of Building 130. Remnants of the wooden quay wall can be seen in the bank. Much of the debris shown was removed during subsequent pier removal operations. (Photograph taken May 2011.)



Parcel B Shoreline Revetment



- The plan for the Parcel B shoreline revetment was amended to bring the revetment across the Wooden Quay Wall portion of the shoreline to meet the southeast edge of the Concrete Quay Wall.
- Installation of the Parcel B shoreline revetment is scheduled for the Fall of 2012.
- Installation of the shoreline revetment will include excavation of some amount of shoreline sediment.
- The data gap of deep soil petroleum contamination adjacent to the shoreline is now a time-critical issue.



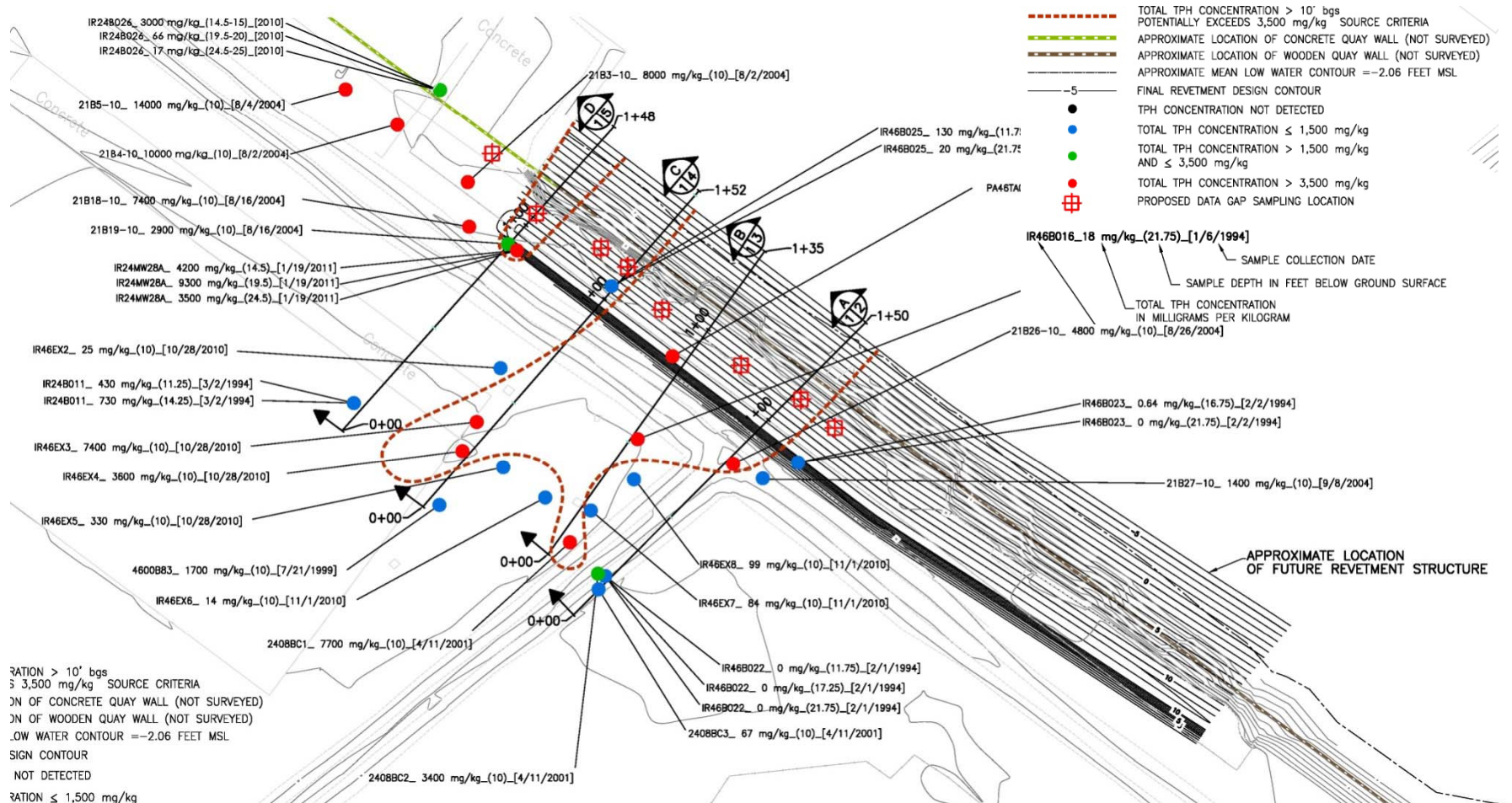
Purpose of Revetment Extension and TPH Deep Soil DGI



- Extension of shoreline revetment wall to Building 130 area will address regulator concerns about long-term stability of the shoreline adjacent to TPH-impacted deep soil at the Combined Site.
- Additional deep soil data is needed to fully assess the need for potential changes in the revetment wall design to address TPH-impacted deep soils along the shoreline.



Site Map Showing TPH in Deep Soil, Proposed Data Gap Borings and Revetment Overlay, Parcel B





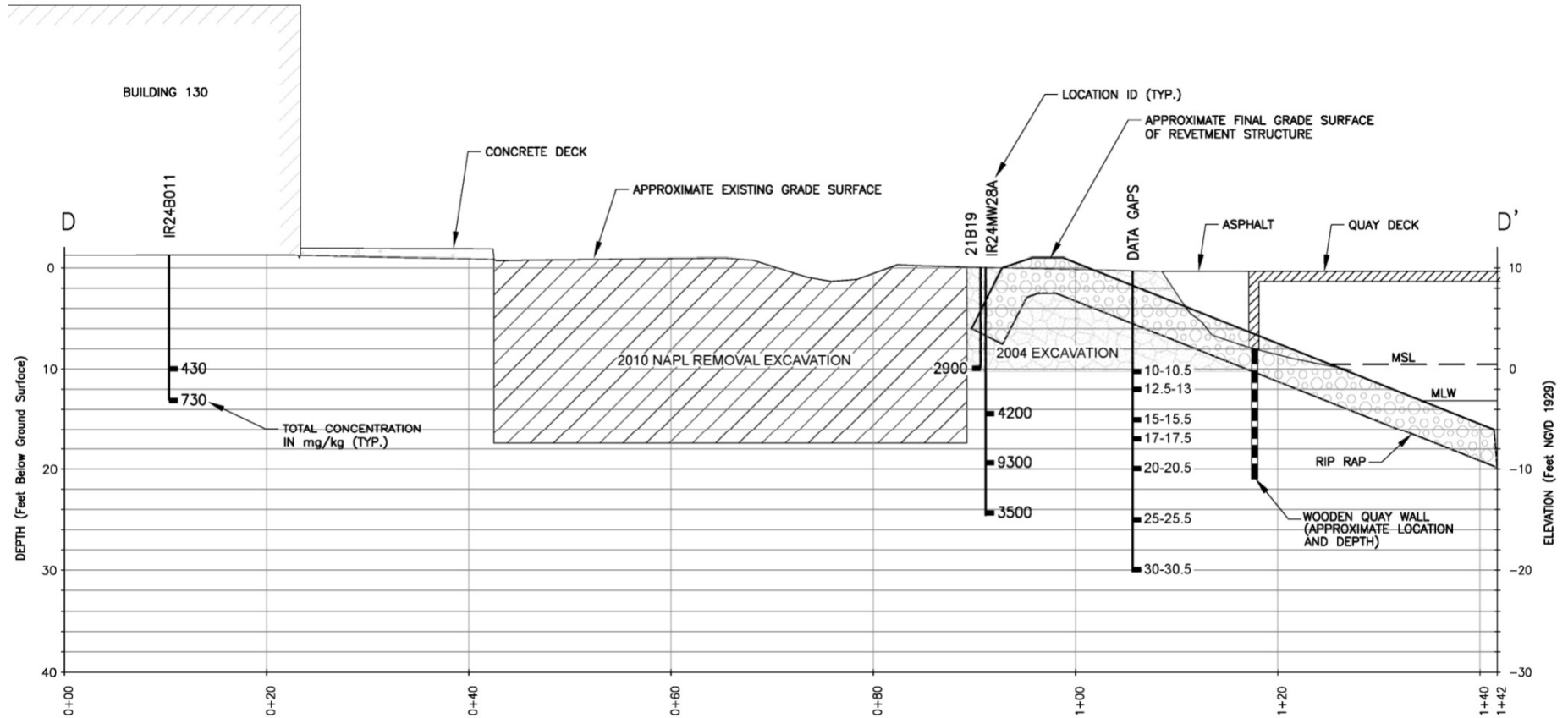
Proposed Deep Soil Data Gap Investigation



- The Navy proposes eight (8) soil borings located adjacent to the Quay Wall. This sampling is part of the Basewide Petroleum Program, and not CERCLA.
- Seven soil samples between 10 and 30 feet bgs will be collected from each soil boring.
- Samples will be analyzed for TPH-Extractables (diesel, motor oil).
- The proposed scope and locations have been informally approved by the Water Board.
- The proposed work will be conducted under the existing Petroleum Work Plan and SAP. No additional planning documents are needed.



Cross Section Perpendicular to Quay Wall





Schedule



- Drilling Start Date (tentative): September 17, 2012
- Preliminary Data Available: September 28, 2012
- Data Validation Complete: October 18, 2012
- Internal Draft Data Gap Summary Report: November 16, 2012
- Data Gap Summary Report - Draft to Agencies:
December 16, 2012